Network Control Center

STDN DAILY REPORT
FOR GMT DAYS
20, 21,22,23,24,25
AND 26 NOVEMBER 2000

Part I. Operations

20 NOVEMBER

A. SN Anomalies:

1. XTE Support 20/0002-0022Z

No acquisition at event start. No RF seen on console spectrum analyzer throughout the entire event . There were no automatic forward reacquisition sent by XTE POCC. Reason unknown for no RF. TTR # 23180

TDE SSA1F/R 0002-0022Z 20 Min.Svc Loss 19 Min. 30 Sec. Data Loss

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies: - None.

1. AGS/WIRE Support 20/1325-1336Z

Exciter Failure after AOS the IEEE Converter was power cycled to reset,to regain control. After AOS our HP 8780A Exciter failed to terminate the sweep, IEE-488 buss wasn't responding in the pedestal. A re-sweep was initiated because commands were not getting into the S/C. There was a total loss of exciter control at 13:29:55Z till the end of support.

1324-1335Z 10 Min. 33 Sec. Svc/Data Loss (Recov)

2. AGS/TOMP-EP Support 20/1946-1951Z

Master Computer failed to configure the TOTS Digital System prior to start of event. Unable to complete 202kb dump due to the digital side of TOTS 1 not configuring. To clear the anomaly Operator had to go behind the racks and recycled the power. Operator then reloaded the converter buffer and Project started receiving telemetry data. TTR # 23183 CDS ID # 17503

1946-2000Z 1 Min. Svc/Data Loss (Non-Recov)

21 NOVEMBER

A. SN Anomalies:

1. EUVE Support 21/1348-1406Z

Negative Acquisition no RF present on Spectrum Analyzer. Reason unknown. Anomaly is under investigation by POCC. TTR # 23185

TDE SSA2F/R 1348-1406Z 17 Min. 30 Sec. Svc/Data Loss (Non-Recov)

2. UARS Support 21/2135-2150Z

During a Payload Performance Test on SGLT 4 MA system the PN clock for the online MDP (A FORWARD) had been disconnected. Following the test the system was returned to operation with out the clock connected. Two BRTS events and a UARS event were impacted. During the UARS event the CSC accomplished a forward failover to the “B” forward chain. This action allowed the event to lock. UARS reported good lock at 21:50:09Z. At about this same time the disconnected PN clock was discovered and re-connected. TTR # 23187

TDE C1319MS MAR5 2135-2139Z 4 Min.Svc Loss
TDE C1312MS MAR3 2142-2146Z 4 Min.Svc Loss
UARS MAR2 2147-2209Z 5 Min. 48 Sec.Svc 2 Min. 39 Sec. Data Loss

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies:

1. AGS/WIRE Support 21/1319-1330Z

TPCE could not establish a realtime or command connection to the Project at AOS. The warning message display indicated a problem at the Project. A solid command link was never established with the Project. TTR # 23186 CDS ID# 17510

1318-1328Z 9 Min. 58 Sec. Svc/Data Loss (Recov)

November 22

A. SN Anomalies:

1. TERRA Support 22/0335-1112Z

POCC reported “Q” Channel data problems on the prime line from WSGT and/or the backup line from STGT. Improper switch settings for NODE 1:10:20 at the POCC. TTR # 23188

275 SSA2F/R 0335-0350Z 15 Min. Data Loss (Recov)
275 SSA2F/R 0505-0520Z 15 Min. Data Loss (Recov)
275 SSA2F/R 0641-0657Z 15 Min. Data Loss (Recov)
171 SSA2F/R 1046-1112Z 23 Min. 51 Sec. Data Loss (Recov)

2. EO-1 Support 22/0612-0935Z

Events one and two were scheduled with Ground/Spacecraft configuration mismatch in data rate and coherency. Station had to GCMR to proper configuration. Event three was scheduled with spacecraft out of view of TDRS-6. TTR # 23189

TDS SSA2F/R 0612-0632Z No Data Loss Declared
TDS SSA2F/R 0730-0750Z No Data Loss Declared
TDS SSA1F/R 0920-0935Z No Data Loss Declared

3. ERBS Support 22/2146-2151Z

The POCC reported a late acquisition reason unknown. Three forward reacquisition were transmitted by POCC to acquire lock at 215006Z. TTR # 23193

171 SSA2F/R 2146-2216Z 3 Min. 36 Sec. Svc/Data Loss (Recov)

4. LANDSAT-7 Support 22/2245-2259Z

The POCC was not receiving data through LIPPS 1. The LIPPS appeared to be in a hung state. LIPPS 1 was rebooted and data was restore. TTR # 23194

TDW SSA1F/R 2245-2300Z 14 Min. Svc/Data Loss (Recov)

B. ISS/ECOMM Anomalies – None.

C. GN Anomalies:

1. AGS/EO-1 Support 22/0219-0224Z

Unable to acquire the Spacecraft at AOS due to a high negative time bias. The operator tried to adjust the time bias in order to lock to the Spacecraft. Norway reported that they had a –1.6 second time bias. Carrier was not up until very late in this support. TTR # 23191 CDS ID # 17516

0219-0228Z 5 Min. Svc/Data Loss (Non-Recov)

2. AGS/QST Support 22/1010-1013Z

After AOS the real-time data stopped updating the frame count at the PTP. Investigation revealed that the BIT SYNC #1 had dropped FEC lock. Movement of the BIT SYNC cause it to relock. The remainder of the support period was completed. The BIT SYNC cards were reseated post pass and card # 8 was exchanged with one taken from a spare unit.
TTR # 23190 CDS ID # 17515

1008-1020Z 3 Min. Svc/Data Loss (Non-Recov)

3. WGS/EO-1 Support 22/1555-1605Z

EO-1 VC-1 and 2 data files did not transfer from NODE 2 to WPS SAFS. Operator checked PTP to see IF files were present at which time the PTP displayed blue “DEATH SCREEN”. The NODE computer showed a NETWORK error in LOG files. The PTP was rebooted and came up normal. VC-1 and 2 will be pushed to EO MOCC. Will observe file transfers on future supports in order to compile a data base for continued failures. TTR # 23192 CDS ID # 17519

1543-1555Z No Data loss Declared

4. SGS/EO-1 Support 22/220113-221357Z

FDF reported that they are seeing a 80hZ bias in EO-1 doppler data, reason unknown. An investigation is ongoing. TTR # 23201 CDS ID# 17523

12 minutes 44 seconds service loss

November 23

A. SN Anomalies:

1. NCC Equipment Anomaly 23/1056-1235Z

Due to a CCS anomaly in the NCC, the POCCs had no ODM/GCMR capability. A restart on CCS-1 was unsuccessful followed by a CCS cold start was performed to clear the anomaly. TTR # 23198

2. EO-1 Support 23/0137-0157Z

EO-1 MOCC did not receive an expected WSGT interface alert at AOS and was unable to verify forward link connection to WSGT SGLT-6.CSC was unable to verify single command and MOCC was unable to verify command through Telemetry. TTR # 2319

275 SSA1F/R 0137-0157Z No Data Loss Declared

3. EO-1 Support 23/0710-0730Z

After AOS EO-1 POCC wanted to perform a data rate change. WSGT CSC entered a GCMR upon their request (Approx. 0713Z) to change the return to 8kb (I-Channel). The return did not lock from that time to the end of the support, reason unknown. POCC is not declaring any data or service impact. TTR # 23196

275 SSA1F/R 0137-0157Z No Data Loss Declared

4. EO-1 Support 23/2205-221450Z

EO-1 POCC experienced a late acquisition, reason unknown. TTR # 23202

275 SSAR2 2205-2235Z 9 minutes 50 seconds data loss recoverable

5. TDRS 5,6,7 Supports 23/2108-2359Z

FDF reported no TDMS. STGT operator inadvertently disconnected the DIS switch path during On-The- Job Training (OJT). The DIS switch path was reconnected to restore the service.TDMS are recoverable via LOR playback. This anomaly is carried over to the new raday. TTR # 23206

B. ISS/ECOMM Anomalies – None.

C. GN Anomalies:

1. AGS/SAC-C Support 23/0608-0616Z

CMOC reported CRC errors, bit sync #1 would not lock steady, ZIN is set to low on BS 1 & 2 but to hi on BS 3. Changing this to hi on BS 1 gave a steady lock, but CMOC still had CRC errors. Next tried breaking lock on the data combiner with no luck, then hit the CAL/RESET button on the PSK Demod and it synced up and the CRC errors stopped. AOS was at 06:08:16, got good telemetry data to CMOC at 06:15:45, LOS was at 06:21:41. A station PRT was conducted post pass with good sync on the PSK demod. TTR # 23197 CDS ID # 17524

0608-0622Z 7 Min. 29 Sec. Svc/Data Loss (Non-Recov)

2. MGS/SAC-C Support 23/203639-204321Z

The 10 meter antenna went into oscillation in azimuth and elevation at approximately 84.56 degrees of elevation on the rise to PCA. This occurs on the upswing above 35-45 degrees of elevation when autotracking S-Band passes. This has been a continuing problem and troubleshooting will continue by viasat as time allows. TTR # 23199 CDS # 17522

202959-204321Z 6 mins 42 secs service loss 3 mins 42 secs data loss non-recoverable

3. MGS/SAC-C Support 23/1206-122002Z

The ephemeris loaded into the SCC was bad. This caused the AOS/LOS and azimuth and elevation angles to be wrong. AOS was not attained. SAC-C has verified that the ephemeris is incorrect and is taking action to correct the problem. TTR # 23200 CDS ID# 17525

14 minutes 02 seconds service/data loss recoverable

4. WGS/QUICKSCAT Support 23/2324-2339Z

Bit sync NR. 4 would not lock on 4KB D/L data, reason unknown. Trouble shooting in progress. TTR # 23203 CDS ID# 17526

4K 15 minutes data loss non-recoverable

November 24

A. SN Anomalies:

1. TOPEX Spacecraft Anomaly 24/044525-2156Z

Prior to the end of event at 044512Z,both chains dropped lock due to a reconfiguration of the spacecraft. Lock was not restored for the duration of the event. The POCC transmitted two forward reacquisition in order to acquire lock but was unsuccessful. No Data Loss declared. TOPEX reported their spacecraft is in a Safehold mode. Approximately 330/0045Z the POCC advised they were out of Safehold mode at 329/2156Z. TTR # 23205

2. TDRS 5,6,7 Supports 24/0000-111539Z

FDF Reported no TDMS from STGT. The DIS Switch Path was inadvertently disconnected during On Job Training (OJT) at STGT.This is a continuation from day 328/210808Z reference TTR # 23206. TTR # 23208

3. EUVE Support 24/204430-204752Z

POCC reported a late acquisition reason unknown. One forward reacquisition was transmitted to acquire lock. TTR # 23207

TDW MAR05 2044-2104Z 3 mins 22 sec svc/data loss recoverable

B. ISS/ECOMM Anomalies – None.

C. GN Anomalies:

1. SGS/QST Support 24/0055-010501Z

The POCC reported they lost lock on 4k real-time data. The station suspect the Microdyne 1620 Combiner hung . The Combiner was repowered postpass. TTR # 23204 CDS ID#17527

004945-010501Z 10 mins svc/data loss recoverable

November 25

A. SN Anomalies:

1. TOPEX Support 25/0654-0729Z

Topex experienced a negative acquisition. POCC reported that an ephemeris upload pointing the Hi-Gain antenna to TDRS 171 was not uploaded to the spacecraft. TTR # 23209

171 SSA2 34 mins data loss recoverable

B. ISS/ECOMM Anomalies – None.

C.GN Anomalies:

1. AGS/SAC-C Support 25/0547-0600Z

Communication And Data lines are down at the project, no data or command socket were established. All spacecraft downlink data was recorded. Voice connections was established by direct telephone through Nascom. TTR # 23210

13 mins svc/data loss recoverable

2. SGS/EO1 Support 25/204251-2115Z

At initialization, the Master Computer hung. The support had to be manually configured. E01 is a brand new spacecraft and the X-Dump requires several manual interventions for SGS. Lack of time due to manually configuring the station probably caused us to make improper setups for the X-Band recording. Also, manually configuring caused SGS to have a minute and a half late AOS. X-Dump Data was verified good during real-time by the DQM equipment. But the POCC was unable to verify good data recorded postpass by the DQM. Lack of automation for this support also required the TDF and SAFS files had to be manually transferred postpass. TTR # 23211

205051-210356Z 11 Mins 46 Sec Svc/Data loss non-recov

November 26

A. SN Anomalies:

1. NCC/CCS-1 Anomaly 26/0540-0553Z

The events listed had no ODM/GCMR capability due to a NCC anomaly. Events were hung in autoqueue on the NCC Schedulers Console . A cold start on CCS-1 was performed to clear the anomaly. TTR # 23212

TDE HST SSA1 052815-062015Z 13 Min Svc loss
TDW UARS SSA1 0544-0615Z 9 Mins Svc loss
TDS TERRA SSA2 0522-0547Z 7 Mins Svc loss
TDS ISS SSA1 053036-055633Z 13 Mins Svc loss

2. EO-1 Communication Anomaly 26/1250-1320Z

The Project reported no WDISC socket connection on this event. Subsequent event at 1345-1420Z locked up automatically without manual intervention. TTR # 23213

275 1250-1320Z 30 Min Svc/Data Loss (Recov)

3. BRTS Support 26/2008-2153Z

BRTS 1313 failed to acquire. The event was rescheduled and again failed to obtain lock. A third event was scheduled this time on SSA-2 acquiring with no problem. This has been an on-going anomaly (since DOY 302) for TDW MA BRTS. TTR # 23214

TDW 2008-2012Z 3 Min. 30 Sec. Svc/Data Loss (Non-Recov)
TDW 2149-2153Z 3 Min. 30.Sec. Svc/Data Loss (Non-Recov)

B. ISS/ECOMM Anomalies – None.

C.GN Anomalies:

1. AGS/EO-1 Operator Error 26/0503-0515Z

During support noticed 782 PSK generator was not getting any data or clock on the input. Looked at the Digital Matrix Switch to make sure configured properly no problem were found here. Next looked at patch panel where data goes from DMX to the 782 PSK generator and did not see any clock present. Found after support, PTP-1 had been configured for the wrong IP address. Commanding recoverable from the next contact with spacecraft. TTR # 23215 CDS ID # 17530

0503-0515Z 12 Min. Svc/Data Loss (Recov)

2. AGS/ WIRE Operator Error 26/1421-1432Z

Tracking Data Formatter failed at the start command at AOS-1 min. Operator failed to observe the malfunction and correct. TTR # 23216 CDS ID # 17531

1421-1432Z 11 Min. Svc/Data Loss (Non-Recov)

3. MGS/RADARSAT 26/1842-1844Z

The C200 failed to start the Ampex recorders on-time. Manual intervention was required. The time lag from manual start to the recorders actually starting to record was 1 minute, 5 seconds. C200 and ampex recorders were power cycled to fix problem. TTR # 23217 CDS ID# 17532

1840-1855Z 1 Min. 4 Sec. Svc/Data Loss (Non-Recov)

4. AGS/EO-1 26/2004-2017Z

The Operator noted shortly after AOS that the TDF was reporting Static angles. Post pass checking indicated that the TDF had been reporting Static Angles since DOY 329/20:18Z (an EO-1 Support). This is a Total of 24 events with static angles in the TDF data (minimum of 240 min). TTR 23220 CDS ID # 17534

2004-2017Z 13 Min. Svc/Data Loss (Non-Recov)

Part II. Testing Anomalies

A. SN Test - None.

B. GN Test - None.

Part III. Equipment Status Changes

1. WPS 894: SBPA:01-X1, 6M Power Amp, R 11161430Z, ETRO 12012359Z. Intermittent problem where unit uplink drops in and out with uplink on.

Part IV. Scheduled Activities:

TERRA/ERPS Parallel Operations Test 27/1415-12/15/2400Z

Part V. Launch Forecast Changes –None.